

OPTICAL SIGNAL RECEIVER WITH RPM, DATA AND DATA BAR OUTPUT

Abstract of Disclosure

An optical signal receiver system provides for five (5) signals, namely VCC, Ground, RPM (Receiver input Power Monitor), Data, and Data Bar outputs, using only the four external pins of a conventional TO-style can package. To provide for five signals on only four pins, two of the output signals are superimposed on each other in which one has a DC value (RPM) and one has an AC value (Data or Data Bar). Once the combined signal comes out of the TO can, the combined signal can be separated into two separate signals using a capacitor which blocks the DC signal (Data or Data Bar) and allows the AC signal to go through. The DC information is then extracted by filtering the AC information from the combined signal with a Current Sense Circuit.

Figures